## IN THE CLAIMS

Claims 1-5 and 7-18 are pending in this application. Please cancel claim 6 without prejudice or disclaimer, and amend claims 1 and 4, as follows:

- (Currently Amended) An optical head characterized by a light source formed of an indirect semiconductor laser having an active layer structure and an asymmetric quantum well structure, a lens for focusing a light beam from the light source onto a medium, and a detector for detecting a reflected light beam from the medium.
- 2. (Original) An optical head as set forth in claim 1, characterized in that the semiconductor laser has an active layer for emitting a light beam, and an indirect semiconductor is used for the active layer.
- 3. (Original) An optical head as set forth in claim 1, characterized in that the semiconductor laser has a quantum well structure for emitting a light beam, the quantum well structure comprises an active layer and a barrier layer, and an indirect semiconductor material is interposed between the active layer and the barrier layer.
- 4. (Currently Amended) An optical head characterized by a semi-conductor semiconductor laser having an active layer made of an indirect semiconductor mixed crystal material, and a detector for detecting a reflected light beam from a medium.
- 5. (Original) An optical head characterized by a recording laser, and a reproducing laser provided independent from the recording laser, the reproducing laser being an indirect semiconductor laser.
- 6. (Canceled).
- 7. (Original) An optical head as set forth in claim 1, characterized in that the indirect semiconductor has an active layer structure, and has an adjacent confinement structure.
- 8. (Previously Presented) An optical head as set forth in claim 4, characterized in that

the material of the indirect semiconductor is of an AlGaP (aluminum, gallium and phosphor) group.

- 9. (Original) An optical head as set forth in claim 8, characterized in that the half-width value of exciting current for causing laser oscillation is not less than 20 meV but not greater than 400 meV in the form of optical energy range.
- 10. (Previously Presented) An optical head as set forth in claim 8, characterized in that the half-value width of exciting current for causing laser oscillation is not less than 6 nm but not greater than 100 nm.
- 11. (Previously Presented) An optical head as set forth in claim 4, characterized in that the material of the indirect semiconductor is of a SiGe (silicon germanium) group.
- 12. (Previously Presented) An optical head as set forth in claim 11, characterized in that the half-value width of exciting current for causing laser oscillation emits an output light beam having a continuous spectrum which is not less than 20 meV but not greater than 150 meV in the form of optical energy range.
- 13. (Previously Presented) An optical head as set forth in claim 11, characterized in that the half-value width of exciting current for causing laser oscillation emits an output light beam having a continuous spectrum which is not less than 13 nm but not greater than 90 nm at a room temperature (300 K).
- 14. (Original) An optical head as set forth in claim 4, a d.c. drive is used for driving the semiconductor laser.
- 15. (Original) An optical head as set forth in claim 4, characterized by an indirect semiconductor laser incorporating a multi-layer film at an end face of a resonator and serving as a light source.
- 16. (Original) An optical head as set forth in claim 4, characterized by a semiconductor laser made of an indirect semiconductor and serving as the light source, and a

waveband pass filter for limiting the wavelength of a light beam from the semiconductor laser to be less a half-value width of 2 nm.

- 17. (Original) An optical head as set forth in claim 4, characterized by a semiconductor laser made of an indirect semiconductor and serving as a light source, and a cooler for lowering the temperature of a light emitting part of the semiconductor laser.
- 18. (Original) An optical disc apparatus using an optical head as set forth in claim 4.